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Director of Directorate for Plasma Operation (POP) FST-001

Reports to Line Manager:	Director of Department for ITER Project	**Job Code:**	FST-001
Direct Employment:	Required.	**Grade:**	DDG/D1-D2
Date Written:	March 2011	**Date Revised:**	March 2011

china
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Purpose

To support the Director of Department for ITER Project (DIP) in all matters related to ITER physics performance projection, science and technology development, R&D (except that directly supporting construction of ITER) including coordination of ITER and worldwide tokamak physics activities and test blanket development within the Members' research programs. To position ITER to be a facility and a research team with a leading, world-class fusion science program.

Major Duties/Responsibilities

- Supports the Director of Department for ITER Project in the construction of ITER with all relevant physics and technology assessments and tradeoffs, including plasma-related specifications for the engineering systems, and especially regarding the test blankets;
- Maintains a strong commitment to the implementation and perpetuation of ITER values and ethics;
- Manages all project relevant to scope, schedule, cost, risk and quality and regularly reports to the Director of DIP;
- Provides effective leadership for heads of division and staff of the Directorate for Plasma Operation by ensuring managers and team members be motivated, and by constantly developing their skills and experience through close staff collaboration;
- Oversees the interfaces between the ITER Organization and the Domestic Agency Leaders related to the tasks of POP;
- Develops an integrated international research organization that engages all ITER Members and facilitates world-class research by refining the ITER configuration and integrating effectively with the Members' on-going research activities and future plans (e.g., the International Tokamak Physics Activity and its successors);
- Specifies and develops tokamak physics data base, and acquisition and analysis tools and specifies the requirements for the plasma control system, i.e. ELM control and Disruption mitigation etc.;
- Coordinates fusion research with other major research institutions and facilities;
- Coordinates fusion research with local, national and international universities and fosters academic collaboration;
- Develops and maintains a student and trainee program in cooperation with other institutes (national and international) and universities;
- Shows strong commitment to the ITER safety program and enforces it through individual behaviour and in his/her team.

Qualifications and Experience

- ***Education:***
  - Degree equivalent to PhD in tokamak physics and/or fusion technology or in relevant scientific and technological disciplines;
- ***Technical and Project experience:***
  - Strong background in plasma physics and fusion technology as a whole;
  - International recognition for outstanding contributions to fusion science.
- ***People Management experience:***
  - A minimum of 10 years in a managerial position in relevant scientific and technical projects.
- ***Social skills:***
  - Excellent communication and negotiation skills;
  - Ability to work effectively in a multi-cultural environment;
  - Ability to work in a team and to promote team work.
- ***Language requirements:***
  - Good working knowledge of spoken and written English is essential.
- ***Computer and IT skills:***
  - Skills consistent with managing a complex developmental project.

Work Direction and Interfaces

- Reports to the Director of Department for ITER Project.
- Interfaces with all other directorates to support excellent integration.
- Maintains communication with other organizations related to the ITER collaboration as well as the fusion community.

Measures of Effectiveness

- Successfully supports the Director of Department for ITER Project in implementing the scientific and technical scope of ITER;
- Successfully manages interface between PO divisions and Domestic Agency Leaders;
- Successfully creates a scientific program that serves the interest of the worldwide fusion community;
- Successfully maintains effective communication with all organizations interfacing with ITER;
- Effectively sets up of a peer reviewed program and all associated infrastructure to support worldwide research on ITER;
- Successfully builds up local and visiting scientific organization at the ITER site;
- Successfully develops a TBM program.